

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (Withdrawn): Device for the production of a multi-layer concrete pipe, comprising:

a first stand;

a first drivable compacting tool mounted in said stand;

at least one turntable on which several mold mantles standing vertically can be pivoted into said stand in cycles;

a first charging system for filling a first concrete mixture into one of the mold mantles;

a second drivable compacting tool having an outside diameter that is smaller than an outside diameter of the first compacting tool; and

a second charging system for filling a second concrete mixture into one of the mold mantles.

Claim 2 (Withdrawn): Device according to claim 1, further comprising a second stand in which the second compacting tool is mounted so that said second compacting tool can be driven, said

second stand being associated with said first stand so that said mold mantles can be pivoted into the second stand from the first stand by way of a turntable in cycles.

Claim 3 (Withdrawn): Device according to claim 2, wherein the first charging system is assigned to the first stand and the second charging system is assigned to the second stand.

Claim 4 (Withdrawn): Device according to claim 1, wherein the first and the second charging systems are assigned to the same stand, in which the first and the second compacting tool are also mounted.

Claim 5 (Withdrawn): Device according to claim 4, wherein at least one of the charging systems has a concrete silo with a filling belt assigned to it.

Claim 6 (Withdrawn): Device according to claim 4, wherein one of the charging systems has a concrete pump having a pump hose.

Claim 7 (Withdrawn): Device according to claim 4, wherein the first and the second compacting tool can be driven alternately in the stand, in cycles, by way of a quick-change device.

Claim 8 (Withdrawn): Device according to claim 4, wherein the second compacting tool is arranged below the first compacting tool on a common shaft.

Claim 9 (Withdrawn): Device according to claim 4, wherein the compacting tools are arranged on a hollow shaft which is assigned to at least one of the charging systems in such a manner that the concrete mixture is supplied to a location below the first compacting tool, through the hollow shaft.

Claim 10 (Withdrawn): Device according to claim 4, wherein the outside diameter of the compacting tool is radially adjustable.

Claim 11 (Withdrawn): Device according to claim 1, wherein the compacting tools each have a distributor having several distributor rollers that act essentially radially, and a compactor having several pressing rollers that act essentially

radially, and a smoothing tool.

Claim 12 (Withdrawn): Device according to claim 1, wherein the compacting tools each have a distributor having several distributor rockers that act essentially radially, and a compactor having several compacting rockers that act essentially radially, and smoothing tools.

Claim 13 (Withdrawn): Device according to claim 11, wherein the distributor of each compacting tool rotates about a longitudinal axis of the mold mantle in a direction opposite the compactor, and at a different speed.

Claim 14 (Withdrawn): Device according to claim 1, wherein at least one of the compacting tools includes a spray head for distributing and compacting concrete mixtures, which is arranged above the smoothing tool.

Claims 15-20 (Canceled).

Claim 21 (New): A method for the production of a multi-layer concrete pipe, comprising the following steps:
producing an outer layer by filling a mold mantle which

stands essentially vertically, with a first concrete mixture by means of a first charging system and compacting said first concrete mixture in the mold mantle;

producing at least one inner layer by filling said outer layer within said mold mantle, which stands essentially vertically, with a second concrete mixture, which is an acid-resistant concrete mixture different from said first concrete mixture, by means of a second charging system;

compacting the inner concrete layer with compacting rollers that act essentially radially and with a smoothing tool; and

removing the concrete pipe formed from the first and second concrete mixtures from the mold;

wherein said at least one inner layer is applied directly to said outer layer before said outer layer is cured.

Claim 22 (New): The method according to claim 21, wherein said mold mantle stands on a turntable and is pivoted into a first stand prior to producing said outer layer.

Claim 23 (New): The method according to claim 21, wherein said outer layer is compacted with a first compacting tool, and the inner layer is compacted with a second compacting tool that has a smaller diameter than a diameter of the first compacting

tool, and wherein the first and second compacting tools distribute the concrete mixtures in said mold mantle and said outer layer, respectively.

Claim 24 (New): The method according to claim 21, wherein said concrete pipe formed from the first and second concrete mixtures is removed from said mold immediately after the compacting process and before the pipe is cured.

Claim 25 (New): The method according to claim 23, wherein before the second concrete mixture is filled into the mold mantle and distributed and compacted in said mold mantle, the first compacting tool is exchanged for the second compacting tool, by way of a quick-change device in the first stand, and wherein after the second concrete mixture has been filled into the mold mantle and distributed and compacted, the second compacting tool is exchanged for the first compacting tool, by way of a quick-change device in the first stand.

Claim 26 (New): The method according to claim 23, wherein the first concrete mixture from the first charging system is filled into the mold mantle above the first compacting tool, while at essentially the same time, the second concrete mixture

is supplied from the second charging system, above the second compacting tool, through a shaft on which the compacting tools are mounted.

Claim 27 (New): The method according to claim 21, wherein the inner and outer layers are compacted with a single compacting tool having a radially adjustable compacting tool, and wherein before the second concrete mixture is filled into the mold mantle and distributed and compacted in said mold mantle, an outside diameter of the compacting tool is reversibly reduced.

Claim 28 (New): The method according to claim 22, wherein before the second concrete mixture is filled into the mold mantle and distributed and compacted in said mold mantle, the mold mantle on the turntable is pivoted out of the first stand and pivoted, standing essentially vertically, into a second stand.

Claim 29 (New): The method according to claim 22, wherein before the second concrete mixture is filled into the mold mantle and distributed and compacted in it, the mold mantle on the turntable is transported from the first stand, essentially standing vertically, to a second stand, and is introduced on another turntable, into the second stand.